



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF MAILING

I hereby certify that this **INFORMATION DISCLOSURE STATEMENT** and documents submitted therewith are being deposited with the United States Postal Service as first class mail, postage prepaid thereon, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

Nancy Malsich	<u> </u>				
Applicant: Nicolaou, et al.) Group: 1624				
Serial No.: 10/685,658	Confirmation No.: 5643				
Filed: October 14, 2003)) Examiner: Unassigned				
For: SYNTHESIS OF NON-SYMMETRICAL SULFAMIDES USING BURGESS-TYPE REAGENTS) Our Ref.: TSRI 910.1)))				

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In recognition of their continuing duty to disclose pursuant to 37 CFR §1.56, Applicants hereby submit the present Information Disclosure Statement and accompanying PTO Form 1449 in compliance therewith.

Applicants understand that the interpretation given to each reference may differ from one individual to another. The PTO is therefore encouraged to independently examine the disclosed references. While the references provided in this Information Disclosure Statement may be material pursuant to 37 CFR \$1.56, it shall not be construed to be an admission that the cited

information is, or is considered to be, material to patentability unless specifically designated as such.

Applicants are filing the present statement pursuant to 37 CFR §1.97(b) insofar as this statement is being filed within three months of the filing of the application and/or before the mailing date of a first Office Action.

Also, in accordance with 37 CFR §1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or, that if made, any search was complete or exhaustive, or that no other material information as defined in 37 CFR §1.56 exists.

Respectfully submitted,

June 22 2005

Date

Donald G. Lewis, Reg. No. 28,636

THE SCRIPPS RESEARCH INSTITUTE Office of Patent Counsel 10550 North Torrey Pines Road Mail Drop TPC-8 La Jolla, CA 92037 (858) 784-2937

P:\NancyB\WP\2005\IDS\ABS0009P

FORM PTO-1	449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK CONTINUES.			ATTY DOCKET NO. TSRI 910.1 APPLICANT Nicolaou, et al.		SERIAL NO. 10/685,658		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		\$ 1 P. C.			FILING DATE 10/ 14/ 2003		GROUP 1624		
		PRADE	U.S.	PATENT DOCUMENTS					
EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME		CLASS	SUB- CLASS	FILING DATE	
1_			FODEIC	IN PATENT DOCUMENT	re			<u> </u>	
EXAM. INITIALS		DOCUMENT NUMBER	DATE	T	COUNTRY		SUB- CLASS	TRANSLATION YES NO	
					<u> </u>				
		1		Including Author, Title, Da				· · · · · · · · · · · · · · · · · · ·	
	2	Atkins, Jr.; et al., "The Reactions of an N-Sulfonylamine Inner Salt", J. Am. Chem. Soc. 90: 4744-4745 (1968)							
	3	Onak, et al., "Synthetic Applications of N-Carboalkoxysulfamate Esters", J. Am. Chem. Soc. 92: 5224-5226 (1970) Atkins, Jr.; et al., "Synthesis and Reactions of N-Sulfonylamines", J. Am. Chem. Soc. 94: 6135-6141 (1972)							
	4	Burgess, et al., "Thermal Reactions of Alkyl N-Carbomethoxysulfamate Esters", J. Org. Chem. 38: 26-31 (1973)							
	5								
	6	Rosenberg, et al., "Potent, Low Molecular Weight Renin Inhibitors Containing a C-Terminal Heterocycle: Hydrogen Bonding at the Active Site", J. Med. Chem. 33: 1582-1590 (1990) Oppolzer, et al., "Enantiomerically Pure, Crystalline 'Anti'-Aldols from N-Acylbornanesultam: Aldolization and Structure of Intermediate t-Butyldimethylsilyl-N,O-Ketene Acetal", Tetrahedron Lett. 32: 61-64 (1991) Oppolzer, et al., "Enantiomerically Pure Isoxazolines via Addition of Nitrile Oxides to Chiral N-Acryloyl Toluene-2,α-Sultams", Tetrahedron Lett. 32: 4893-4896 (1991)							
	7								
	8								
	9	Sartor, et al., "Enantioselective I Asymmetry 2: 639-642 (1991)	iels-Alder Reaction	n of Enals: Fighting Species l	Multiplicity of tl	ne Catalyst wi	th Donor Sol	vents", <u>Tetrahedron</u>	
	10	Ahn, et al., "Asymmetric Aldol I	Reactions Employin	g a Cyclic Sulfamide Chiral	Auxiliary", <u>Tetra</u>	hedron Lett.	<u>33:</u> 6661-666	64 (1992)	
	11	Castro, et al., "Synthesis and Bio indole and Analogues: Agonists					thiadiazolidin	-2-yl)methyl]-1 <i>H</i> -	
EXAMINER				DATE CONSID	ERED				

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE			ATTY DOCKET NO.		_	SERIAL NO.	
	PATENT AND TRADEMARK OFFICE					APPLICANT Nicolaou, et al.			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					FILING DATE 10/14/2003			GROUP 1624	
			U.S. PA	TENT DOCUMENTS					
EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME		CLASS	SUB- CLASS	FILING DATE	
	l		FOREIGN						
EVAM	T	DOCUMENT		PATENT DOCUMENTS				TRANSIATION	
EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUB- CLASS	TRANSLATION YES NO	
		·····							
	-					<u> </u>			
!		O	THER DOCUMENTS (Incl	luding Author Title Deta	Dortinant Dago	a)	-l.	<u> </u>	
	12	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages) Taibe, P.; Mobashery, S. "(Methoxycarbonylsulfamoyl)triethylammonium hydroxide", in Encyclopedia of Reagents for Organic Synthesis, Vol. 5 (Ed. L. A. Paquette), John Wiley & Sons: Chichester, 1995, pp. 3345-3347.							
	13	Dewynter, et al., "Sulfonyl Bis-N-Oxazolidinone (SBO): A New Versatile Dielectrophile with Sequential Reactivity", Tetrahedron Lett. 38: 8691-8694 (1997) Pansare, et al., "Stereoselective Synthesis of 3,4-Disubstituted 1,2,5-Thiadiazolidine 1,1-Dioxides and Their conversion to Unsymmetrical Vicinal Diamines", Synlett: 623-624 (1998) Tozer, et al., "4-Chlorobenzyl Sulfonamide and Sulfamide Derivatives of Histamine Homologues: The Design of Potent Histamine H ₃ Receptor Antagonists", Bioorg. Med. Chem. Lett. 9: 3103-3108 (1999) Gong, et al., "Polar Assembly of N,N'-Bis(4-substituted benzyl)sulfamides", J. Am. Chem. Soc. 121: 9766-9767 (1999) Burckhardt, S., "Methyl N-(triethylammonium-sulfonyl)carbamate: "Burgess Reagent", Synlett: 559 (2000) Kuang, et al., "Utilization of the 1,2,5-Thiadiazolidin-3-one 1,1-Dioxide Scaffold in the Design of Potent Inhibitors of Serine Proteases: SAR Studies Using Carboxylates", Bioorg. Med. Chem. 8: 1005-1016 (2000) Pete, et al., "Synthesis of 5-Substituted Indole Derivatives, Part II. Synthesis of Sumatriptan through the Japp-Klingemann Reaction", Heterocycles 53: 665-673 (2000) Dougherty, et al., "Ring-Closing Metathesis Strategies to Cyclic Sulfamide Peptidomimetics", Tetrahedron 56: 9781-9790 (2000)							
	14								
	15								
	16								
	17								
	18								
	19								
	20								
] :	21	Hof, et al., "Emergent Conformational Preferences of a Self-Assembling Small Molecule: Structure and Dynamics in a Tetrameric Capsule", J. Am. Chem. Soc. 122: 10991-10996 (2000) Schaal, et al., "Synthesis and Comparative Molecular Field Analysis (CoMFA) of Symmetric and Nonsymmetric Cyclic Sulfamide HIV-1 Protease Inhibitors", J. Med. Chem. 44: 155-169 (2001) Hof, et al., "Highly Selective Synthesis of Heterosubstituted Aromatic Sulfamides", Organic Letters 3: 4247-4249 (2001)							
	22								
	23								
	24	Wood, et al., "A novel, one-step method for the conversion of primary alcohols into carbamate-protected amines", <u>Tetrahedron Lett. 43:</u> 3887-3890 (2002)							
	25	Nicolaou, et al., "A Novel Regio- and Stereoselective Synthesis of Sulfamidates from 1,2-Diols Using Burgess and Related Reagents: A Facile Entry into β-Amino Alcohols", Angew. Chem. Int. Ed. Engl. 41: 834-838 (2002)							
EXAMINER				DATE CONSID	ERED	, ,			